

RRRRRRRR	MM	MM	SSSSSSSS	SSSSSSSS	HH	HH	RRRRRRRR	
RRRRRRRR	MM	MM	SSSSSSSS	SSSSSSSS	HH	HH	RRRRRRRR	
RR	RR	MMMM	MMMM	SS	SS	HH	RR	RR
RR	RR	MMMM	MMMM	SS	SS	HH	RR	RR
RR	RR	MM	MM	SS	SS	HH	RR	RR
RR	RR	MM	MM	SS	SS	HH	RR	RR
RRRRRRRR	MM	MM	SSSSSS	SSSSSS	HHHHHHHHHH	RRRRRRRR		
RRRRRRRR	MM	MM	SSSSSS	SSSSSS	HHHHHHHHHH	RRRRRRRR		
RR	RR	MM	MM	SS	SS	HH	RR	RR
RR	RR	MM	MM	SS	SS	HH	RR	RR
RR	RR	MM	MM	SS	SS	HH	RR	RR
RR	RR	MM	MM	SS	SS	HH	RR	RR
RR	RR	MM	MM	SSSSSSSS	SSSSSSSS	HH	HH	RR
RR	RR	MM	MM	SSSSSSSS	SSSSSSSS	HH	HH	RR

SSSSSSSS	DDDDDDDD	LL	
SSSSSSSS	DDDDDDDD	LL	
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SS	DD	DD	LL
SSSSSSSS	DDDDDDDD	LLLLLLLL	
SSSSSSSS	DDDDDDDD	LLLLLLLL	

RM
{
{
{
MO
/*
/*
/*
age

```
{ $begin rmsshr,V04-000
{
{*****  
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```

{ rms shared file structure definitions

{ Modified By:

V03-009 SHZ0005 Stephen H. Zalewski 05-Aug-1983
Add a one byte flag field to GBSB.

V03-008 SHZ0004 Stephen H. Zalewski 28-Jun-1983
Change size of RMS facility code in SFSB.

V03-007 KBT0489 Keith B. Thompson 9-Feb-1983
Add FAB and SHR field to sfsb

V03-006 KBT0325 Keith B. Thompson 10-Sep-1982
Remove all S0 sharing structure definitions

V03-005 SHZ0003 Stephen H. Zalewski, 12-Aug-1982 14:09
Added further definitions to GBSB.

V03-004 SHZ0002 Stephen H. Zalewski. 11-Aug-1982 21:10
Changed name of \$GBLB to \$GBSB.

V03-003 SHZ0001 Stephen H. Zalewski 10-Aug-1982
Add GBLB definitions.

V03-002 KBT0081 Keith B. Thompson 12-Jul-1982
Add b_curlck, l_ebk and l_hbk to the sfsb. Also fix
revision number in jwh000T

V03-001 JWH0001 Jeffrey W. Horn 24-Mar-1982
Change SIFB to reflect journaling changes to the IFB.


```
    FID_SEQ word unsigned;          /* file id word two
    FID_RVN word unsigned;          /* file id word three
    constant FIX_LEN equals 10    prefix SFSB tag $C; /* 10 bytes of fixed size data
    DEV_NAM character length 22;   /* 22 bytes remain to hold device id (node$device_name)
    end RESNAM FIELDS;
end RESNAM OVERLAY;
LKSBSB OVERLAY union fill;
    LKSBSB longword unsigned;      /* lock status block
    LKSBSB FIELDS structure fill;
        STATUS word unsigned;     /* VMS status code
        S_BITS word unsigned;     /* various status bits
    end LKSBSB FIELDS;
end LKSBSB OVERLAY;
LOCK_ID longword unsigned;       /* second longword of LKSBSB is the lock id
LVB_OVERLAY union fill;
    LVB longword unsigned dimension 4; /* lock value block
    constant BLN equals . prefix SFSB$ tag K; /* length of sfsb
    constant BLN equals . prefix SFSB$ tag C; /* length of sfsb
/*
/* keep the next two fields in same order as they are in FAB
LVB_FIELDS structure fill;
    FAC byte unsigned;           /* fac bits from FAB
    SHR byte unsigned;           /* sharing bits (from FAB SHR field)
    FILL_1 word fill prefix SFSBDEF tag $$; /* spare
    FILL_2 longword fill prefix SFSBDEF tag $$; /* spare
    HBK longword unsigned;       /* high block
    EBK longword unsigned;       /* end of file
    end LVB FIELDS;
end LVB OVERLAY;
end SFSBDEF;
end_module $SFSBDEF;
module $GBSBDEF;
/*
```

```

/*
 * GBSB field definitions - global buffer synchronization block
 */
/*
 * The GBSB contains the information necessary to determine if a
 * global section is already open for a file on a given node, and
 * is used for synchronizing access to the global section.
 */
/*
 *gbsb:          +-----+
 *               | FILE_NAME |
 *               +-----+
 *               |-----+-----+-----+
 *               | FLAGS | CURMODE |   BLN  |   BID  |
 *               +-----+-----+-----+
 *               |-----+-----+-----+
 *               | Resource Name |
 *               +-----+
 */
/*
 *lksb:          +-----+
 *               | Still to be def- |   VMS status code |
 *               | ined status bits |               |
 *               +-----+
 *               |-----+-----+
 *               | Lock Id. (Returned for new locks, |
 *               |           input for conversions) |
 *               +-----+
 */
/*
 *lkvb:          +-----+
 *               | GBC      |   GBREF   |
 *               +-----+-----+
 *               | GBS - size of GS in bytes |
 *               +-----+
 *               | spare    |
 *               +-----+
 *               | spare    |
 *               +-----+
 */
/*
aggregate GBSBDEF structure fill prefix GBSB$;
FILENAME OVERLAY union fill;
  FILENAME quadword unsigned;                                /* descriptor of shared file resource name.
                                                               /* resource name is NODE, DEVICE, FILE_ID
                                                               /* points to RESNAM, below
  FILENAME_FIELDS structure fill;
    NAME_LEN word unsigned;                                /* subfield to address descriptor length field
    FILL_3 byte dimension 2 fill prefix GBSBDEF tag $$;   /* tag $$;
    "ADDRESS" longword unsigned;                            /* subfield to address descriptor address field
  end FILENAME_FIELDS;
end FILENAME OVERLAY;
BID byte unsigned;                                         /* block id
constant BID      equals 9  prefix GBSB tag $C;           /* gbsb code
BLN byte unsigned;                                         /* block length in longwords
CURMODE byte unsigned;                                     /* Mode of the current lock
FLAGS OVERLAY union fill;
  FLAGS byte unsigned;                                    /* spare
  FLAGS_BITS structure fill;
    NOTACCESSED bitfield mask;                           /* Process has already decremented access count for GBS.
  end FLAGS_BITS;
end FLAGS_OVERLAY;

```

```
RESNAM character length 32;           /* 32 bytes for name of shared resource
LKSB_OVERLAY union fill;             /* lock status block
  LKSB longword unsigned;           /* VMS status code
  LKSB FIELDS structure fill;      /* various status bits
    STATUS word unsigned;          /* second longword of LKSB is the lock id
    S_BITS word unsigned;          /* Number of global buffers in section.
  end LKSB FIELDS;                /* Number of accessors to global section.
end LKSB_OVERLAY;                   /* Size of global section in bytes.
LOCK_ID longword unsigned;          /* spare
GBC word unsigned;                  /* spare
GBREF word unsigned;                /* length of gbsb
GS_SIZE longword unsigned;          /* length of gbsb
FILE_1 longword fill prefix GBSBDEF tag $$; /* constant BLN equals . prefix GBSBS tag K;
FILL_2 longword fill prefix GBSBDEF tag $$; /* constant BLN equals . prefix GBSBS tag C;
constant BLN equals . prefix GBSBS tag C; /* end GBSBDEF;
end_module $GBSBDEF;
```

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